What is claimed is:

- 1. A process for generating computer flight plans on the Internet comprising the elements of:
  - a) a raw XY&Z database of chart data;
  - b) a data base containing aircraft data;
  - c) a software system to create VFR, IFR and Road charts;
  - d) an Internet web site accessible by a Client computer;
  - e) a software system which computes flight plans requested by means of the Internet web site Client computer;
  - f) a software system which allows for navigation data and aircraft editing by means of the Internet web site Client computer; and a software system which allows for outputting flight plans by means of the Internet web site Client computer.
- 2. A process for generating computer flight plans on the Internet as claimed in claim 1 further comprising the steps of compiling a data base containing topographical data in the form of X,Y, and Z axis coordinates and process for of creating Background images (charts) which are color coded according to elevation using a software system and further generating relief chart shading by use of a software system in which said charts are shaded according to elevation and illumination angle.
- 3. A process for generating computer flight plans on the Internet as claimed in claim 1 further comprising the step of compiling a data base containing navigational data, obstruction data

Patent of Kyle Everson & Roger Stenbock Confidential - 27 07/31/01

The state of

<u>©</u>21

\_\_25

9

- 4. A process for generating computer flight plans on the Internet as claimed in claim 1 further comprising the step(s) of placing text and other textual chart description in such a way as not to overwrite one text element with another.
- 5. A process for generating computer flight plans on the Internet as claimed in claim 1 wherein said element comprise a data base of rasterized charts consisting of pre-defined scales and chart features and a data base of routes consisting of pre-defined waypoint.
- 6. A process for generating computer flight plans on the Internet as claimed in claim 1 wherein said elements include a local area network consisting of a service and number of local Client computers or an Intranet network which is connected by means other than wires such as infrared or radio signals
- 7. A process for generating computer flight plans on the Internet as claimed in claim 6 further comprising the step(s) of computing by means of a software systems a cross section of the flight plan and displaying same in a profile window in which the route is displayed relative to terrain elevation, obstruction elevation, airspace, weather and flight altitude.

- 27

<u>129</u>

**L.** 31

33

35

37

39

41

43

45

47

49

1

Ŧ.

4

8. A process for generating computer flight plans on the Internet comprising the steps of utilizing an Internet Server web site software by means of:

- 9. A process for generating computer flight plans on the Internet as claimed in claim 8 further comprising the step of selecting the desired chart by means of an Internet web site software system which compiles the desired charts tiles requested by the Client computer.
- 10. A process for generating computer flight plans on the Internet as claimed in claim 8 further comprising the step(s) of facilitating chart scrolling and chart viewing without refreshing the entire Client computer display by means of a software system served by an Internet web site.
- 11. A process for generating computer flight plans on the Internet as claimed in claim 8 further comprising the step(s) of prompting and managing the required flight planning parameter by means of an Internet web site software which resides on the Server such flight planning variables inputted and requested by the remote computer.
- 12. A process for generating computer flight plans on the Internet as claimed in claim 8 further comprising the steps(s) of computing by means of a software system the computed flight plans requested using the Internet web site remote computer.

- 14. A process for generating computer flight plans on the Internet as claimed in claim 8 further comprising the steps of filing flight plans by means of a software system through the use of the Internet web site remote computer and the steps of printing reports by means of a software system through the use of the Internet web site Client computer.
- 15. A process for generating computer flight plans on the Internet as claimed in claim 8 wherein said steps of facilitating navigation data entry and editing by means of a software system of the Internet web site remote computer and further facilitating the entry and editing by means of a software system, aircraft performance data editing through the use of the Internet web site Client computer.
- 16. A process for generating computer flight plans on the Internet as claimed in claim 8 wherein said step provides for overlay of graphical weather and textural data over the VFR, IFR, or Road chart along with the route line and waypoints on the Internet web site Client computer.
- 17. A process for generating computer flight plans on the Internet as claimed in claim 8 wherein said step includes the process

Patent of Kyle Everson & Roger Stenbock Confidential - 30 07/31/01

ī

by which route waypoints are selected based on topographical, navigational, weather, geopolitical, airspace, and aircraft performance constrains.

**=**17

**⊈**19 **₩ ⊈**21

₹ 23

<sup>2</sup> 25